DGB418D5 O424O1.

4 D	8 4	ري 2 ي	9	0 5	7 C	ထ ပ	C 5
54 TCG	108 GGA	162 AGG	216 CCG P	270 CAG Q	324 ACC T	378 CCC P	432 AAC N
990	AGT	CAG	AAC N	ATC I	GAG E	CCA P	AAG K
TTC	TGA	999	GGA G	GTG V	TTT F	CCT P	CCT P
45 CCC	99 GAG	153 GGA	207 GGC G	261 GCT A	315 CCT P	369 TTG L	423 GAA E
TGG	299	·	GAC D	CCA	AAC N	CCA P	ACA T
${ m TTG}$	TGA	999	AGA R	GAC D	TAC Y	GCC A	CCC
36 TCC	90 AAC	144 CAG	198 AGC S	252 CAG Q	306 GTC V	360 CCT P	414 AGC S
GGA	909	990	CAG Q	$ ext{TTT}$	GAC D	GCC	CTC
990	999	CTG	GCT A	CCC	CTT L	CCA P	AAG K
27 CTG	81 AGC	135 CTG	189 ATG M	243 AAC N	297 ACG T	351 CCT P	405 AGA R
CTG	AGA	CCA	AAC	GAC D	GCC	GAG E	TCG S
990	CAG	ອວວ	GCA AAC A	$_{\rm L}^{\rm CTT}$	TAT Y	TAT Y	CCC
18 CCA	72 GCA	126 CTA	180 GTT	234 GAG E	288 CAG Q	342 GCC A	396 CAG Q
AAC	CGT	900	GCA	AGC S	CGG R	CCA P	${ m TTG}$
<u> </u>	ATC	CTA	209	CCC	AGC S	CCA	JCC S
9 AGG	63 CCA	117 GGG	171 GAG	225 GAG E	279 CCC P	333 CCA P	387 CCC P
252	63 ATG GAA CCA ATC	CTC TGA	909	GCC	CGA R	GAG E	GCT A
9 5' NGA CGC AGG CGC	ATG	CTC	909 009	225 TTC GCC GAG F A E	CAC CGA H R	CGG R	TCA GCT S A
5.							

FIGURE 1A

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486 CTG L	54(CG	594 CCC P	648 ATC M	702 AT(M	75(TG) C	810 CTT L
$\operatorname{CTG}_{\mathbf{L}}$		TGG W	TCC	TGG W	${ m TTC}$	CTC
GAG E	AGG R			CTC		
477 GCT A		585 AAC N				
ACA T	GAC D	CAG Q	CAG Q	TAC Y	${ m CTG}$	CTC L
GCC	TTG L	CGA R	TTC	ATG M	TGC	ATC
468 GCA A		576 ACT T	630 TTT F	684 ACC T	738 GCC A	792 TCT S
GCA	GAG E	GCT	TGC	TCC	CTC L	CTT
GCT	GCA	ACA T	CCC	GTA V	${ m TTC}$	
459 TCA S	513 AAG K	567 GGC G				
	CGG R			AAG K		9
CAG Q		CTG		CAG Q	CTC L	GCA
450 ACT T	504 CTC L	558 GCC A		666 TTT F	720 CTT L	774 GGC G
AGC	GAG	GCT			•	
TAC	GAG E	CAT	T.C.T.	CAA	CTG L	AAC N
441 TCA S		549 CAG Q		657 CCC P		
TAT GGC Y G	AAA K	CTG L				
TAT Y	AAG K					GTG V

FIGURE 1B

864 CGC R	918 GAT D	972 IGG)26 CTG	380 444 <	134 2AA 2	188 147 1
Ü	<u>5</u>	U	0 10	10 G 2	77	11
TT F	S Q	ტ ტ	AT(M	CŢ	CA(GC(
CT	TC.	GT	IC	J.C	ည	CI
O A	υ > • • • • • • • • • • • • • • • • • • •	A N	ΩH	ďΣ	ŬΚ	Ğ K
855 AAG K	909 TTC F	963 TTC F	.017 GTG V	.071 GTC V	.125 AAG K	179 GCA A
TAT Y	TTC	GGA	ICC S	1 ATT I	2AG 2	1 ACC [
ပ္	<u>L</u>	r G	<	A 7	f (4
AT	AT	T.S	GT	9	TT	CG. R
846 CCC P	900 TTC F	954 GGT G	L008 GCA A	.062 CTA L	1098 1107 1116 1125 1134 FTA TAC CGC CGC ACA GGT GCC AGC TTT CAG AAG GCC CAG CAA S Y R R T G A S F Q K A Q Q	.170 GTG V
CGC R	TTC	CCA P	ACA T	org V	GCC A	3CG
AC	JG.	IC	AC .	E	I.S.	CT
- C	[H [E4	A H	₹ Z	Q A	<u></u> დ დ	ыğ
837 TGC	891 GTT V	945 GGT G	999 999	1053 ATT I	1107 ACA T	1161 AAC N
TGC	TTC	ATT I	AAG K	: : : : : : : : : : : : : : : : : : :	CGC R	. TCC S
GTC V	${ m TTC}$	GCC	CCG	ACT I	260	rTC
8 H	2 5	ဖွ ပွဲ	0 0	4 C	ω U	2 0
82 TT F	88 AA N	6 D Q	99 GT V	104 TT E	109 TA Y	115 GT V
		CTC L		CTC	1098 C TCC TTA TAC CG S L Y R	1152 GGT GTC G V
ည် ့	S	GTC (CTG (—— <u> </u> ల్ల——	— <u>H</u>
TO				CI	TC	GCT
819 CCC P	. 873 AGT S	927 TTT F	981 GCT A	.035 GCC A	.089 CAC H	.143 GCT A
ACT T	GAC D	CTC L	TCT S	1035 GTC GCC V A	1089 ATC CAC I H	1143 TTT GCT F A
TTC ACT F T	AGT S	GTG V	ATC I	CTG	CGG .	GAA . E
			•	<i></i>	7	-

FIGURE 1C

1242 CTG ACT GGG	1296 CTA AGG TCT	1350 CTC CCA ATC	1404 TGT GAC CTA	1458 CCC AGC TTC	1512 AAA GTG GAA	
1233 TGA CCC	1287 CTC CCG TCC C	1341 TCC GTA GTG C	1395 GTT CAC	1449 CCC CAA	1503 AAA AAG	
1224 TTC CGG GCC CCG F R A P	1278 CTG ACT TAG C	1332 GGC TCC	1386 GGC GTG TGG GGA	1440 CC TCT CAC ACG	1494 GGT TAT TTA AAT	
1215 A AAT GCC N A	1269 TTG AGG GAG C	1323 TCA CTA ACT GAT	1377 CTG ACA	1431 T GCT GCC ACC	1485 TGC TTC	
1206 GCT GCT A A	1260 TGC TAC	1314 GAG ACA	1368 CTG CTG AAC	1422 , GGC CAC ACT	1476 : CAC GGC TGT	
1197 GCA GCC GCT GGG A A A G	1251 ATG CCC TGG CCC	1305 CTG GGA CTT GGA	1359 CTA TGG CCA TGA	1413 GTC CCC CCA TCA	1467 SCT CTG CTG TGG	1521 CTG GAA CTG 3'
D 4	Ø		S .	Ŋ	Ö	<u>ت</u> س

FIGURE 1D

54 CA	8 2 3	22	9 K	0 5	4 G	8 &
\odot	108 GAC D	162 GTG V	216 TCA S	270 CAG Q	324 GTG V	378 AAA K
GAG	${ m TTC}$	TCT	TTC	TCA	GCC	AGG R
922	GCT A	CCC	CCC	TCC S	CAG Q	GAC D
45 TGC	99 TCG S	153 GAT D	207 AAC N	261 GGG G	315 CCC (P (369 CTG L
999	ATG M	CAG Q	${ m TTC}$	CCT	ACC	GAA E
TCT	ACC ATG M	TTC F	GAA	CTC	CCG P	GAA E
36	90 ATC	144 CCC '	198 GCG A	252 CAA Q	306 CAG Q	360 CAG Q
GCT	900	AAC N	CTG L	ACC	ACC T	CAG
၁၁၅	ညည	GTA	0 090 c	GTC	CCA P	CGG R
27 AGC	81 TGG	135 GAT D	189 GGC (243 CCT (297 GAA E	351 CTC L
CGA	ວອວ	GTG	CAG	GTT V	GTG V	CTG L
ACA	၁၁၅	CCA P	CCG	ACA T	TCA	9
18 TCT	72 TTC	126 GAC D	180 GCC A	234 ACA T	288 CCA P	342 GCA A
999	GAG	GCG A	AAC N	GCG A	CAG Q	CAG Q
GGA	9 25	TTC	ACC	GCA	CTC	GCC
9 AGT	63 TTC	117 CCC P	171 CTG L	225 AAT N	279 GTT V	333 GCA A
9 5' NCC GGA AGT	GCA GCG	ACC AAC T	CAG Q	GAG ACA E T	GCG A	TCT
NCC	GCA	ACC T	ACC T	GAG E	CCA P	GTG V
5						

FIGURE 2A

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432 TTG L	486 CCC P	540 IGC	594 CTG L	648 3GC 3	702 FAC	756 FTC
			AAC O			
GCC			CTG L			
423 GTA V			585 TTT F			
ACT T	TGC	TAC Y	CTG L	GGA G	TTC	AGC
AAC N	TGG W	GAC	A.C.T. T	AAG K	GCC	TTC
			576 GTG V			
			TCA			
GAG E	CTG	ATC I	CAT H	AAC N	ACT	GAC D
405 CGG R	459 CCT P	513 GAG E	567 TTG L	621 GGC G	675 TTC F	729 TCC S
GAG E	CCC	ACA T	ATG M	TCG	ATC I	AGG R
AAG K	TGG W	TCC	TGG W	TTC F	CTG L	TTT F
396 CGC R	450 AAC N	504 TTC F	558 CTG L	612 TGG W	666 TTT F	720 GCC A
GAA	AAC	GAT		GCC		
CTG L			TAC	CTG	CTG	TAT
387 GAG E	441 AGA R	495 TAT Y	549 CTC L	603 TGC C	657 ATC I	711 ATC I
GCC	GTG V	TTC F	ATG M	GCC A	TCC	CCC
GCT A	CAT H	TGC	AAG	CTT	CTC	CGA R

FIGURE 2B

810 I I 864 CAT H 972 ACA ACA IO26 IO26 AGC	1134 GCT
GGC G G CTC L L CGG R R AGC S	1 TGA
STT / SACC ACC ACC ACC ACC ACC ACC ACC ACC AC	1134 TTC TGA GCT
ATC CAG TTG C I Q L V B 855 TCT ACA CTG G S T L L G F F F T G F F T C TAC CTC TAC C S L Y R CAG GGC ATC T Q G I F G A F C G A F C G A G C TTC C G G G A F C G A G C TTC C G G G A F C G A F C	1125 TCG CCT GCC 1
C CAG 1 P ACA C T T 1 F F F F F F F F F F F F F F F F F F	CCT
ATC (I (S I S I S I CAG (O O O GGA (G A	TCG
792 10 10 10 10 10 10 10 10 10 10 10 10 10	1116 GCC TTT CTC 1
783 GGG ATC TAC A G I Y 837 RTT GCA GCC O I A A I 891 ATG GTG GTG O O R V H 999 CAG GAG TTT T E E E F S 1053 11053	TTT
I I I I I I I I I I I I I I I I I I I	သည်
783 ATA GGG I G 837 TGG ATT W I 891 ATG ATG 0 945 CTG CAG 0 L Q B 0 E B 1053 TCA TCT (S	1107 TCC CCC TCA G
CAA ATA Q I GGT TGG G W ATC ATG I M L L L L GCC CAG A Q A Q A S	ာသ
CAA Q GGT GGT I I L L GCC A A A A A A A A A A A A A A A A A A	TCC
774 TGI C C S S GTC GTC TTC F F 1044 GCT	1098 CTT CTC
TTT F GAC GAC D CAG V V AGA R	
TTT F GGG G G G G G G G G G G G G G G G	TCT
765 GTA V V V 819 CTG CTC L L L L L L L L L TTC F	1089 TCC
TTT F GGC GGC GGC GTG V V A A A T T T T	TCC
TTC TTT GTA F F V 819 CCT GGC CTG B L 873 TCC CTG GCC S L A 927 GCC GTG CTC A V L 981 GGG GCC AGC G A S 1035 AGA ACC TTC R T F	1089 TAG TCC TCC

FIGURE 2C

1242 C TGG AAC	1296 A GCT CTC	1350 C AGT GGG	1404 F GGG ATC	1458 F GGG CCT	1512 C AGC CCA	1566 A CAG ATC	1620 3 TTG CCT
	AA	AG	GL	CC	C.A.		TGG
1233 AGC TCT	1287 AAA AAC	1341 TCT GGA	1395 CAC ACA		1503 CTT AGA	1557 TCT GGT	1611 GAA GGC
ACC	AAA	GTC	ລລລ	IGC	CTT	GGT	AGA
1224 TCA GCG	1278 TGT ACA	1332 TCT TTT	1386 AGA CAC	1440 GCT TTC	1494 ATC TGG	1548 CTC ACA	1602 GCT TCC
သည	CTA	GAT	CAC	GGA	TGA	CCT	CAG
1215 CCT CCT		1323 TGG TAG	1377 TGC ACA	1431 CCA GCT		1539 AAT AAG	1584 1593 1602 1611 CAC TCC AGT GGT CTC CAG GCT TCC AGA GAA GGC
	$ ext{TTT}$	GTT	CTG	ATC	299	999	AGT
	1260 AGG GAA TTT		1368 TTC GTC				1584 GGT CAC TCC
1197 AGG GTT CTT (1251 GGG AGG GAC A	1305 TTT CCT TCT (1359 ACT GAA GTT (1413 ACA GGC TGA C	1467 TGA CTC CCC C	1521 GTC CTT CCT G	1575 TGT TCC CCA G
	GCC GTG GCT CTT CCT CCC TCA GCG ACC AGC TCT CCC TGG	GCC GTG GCT CTT CCT CCC TCA GCG ACC AGC TCT CCC TGG 1260 1260 1269 1278 1287 AGG GAA TTT TTT CCC CCT CTA TGT ACA AAA AAA AAA GCT	1197 1206	1197 1206 1215 1224 1233 1234 1233 1265 1267 1267 1269 1278 1278 1287 1267 1269 1278 1278 1287 1305 1314 1323 1332 1332 1341 1323 1332 1341 1359 1368 1377 1386 1359 1368 1377 1386 1359 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1395 1368 1377 1386 1395 1368 1377 1386 1395 1368 1377 1386 1395 1395 1386 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1386 1395 1395 1386 1395 1386 1395 1386 1395	1197 1206	GTT CTT GCC GTG GCT CTT CCT CCT CCA GCG ACC AGC TCT CC TGG 1251 AGG GAA TTT TTT CCC CCT CTA TGT ACA AAA AAA AAC AAA GCT 1305 CCT TCT CTG GTG ATG GTT TGG TAG GAT TCT TTT GTC TCT GGA AGC AGT 1318 GAA GTT CTC TTC GTC TG TGC ACA CAC GCA CC CAC AGA GTT GGG 1413 GGC TGA GTT TGG TAG GAT TCT TTT GTC TCT GGA AGC AGT 1413 GAA GTT CTC TTC GTC CTG TGC ACA CAC CAC CAC ACA GTT GGG 1413 GGC TGA GTT TGG TGC ACA CAC GGA GCT TTC TGC CAC AGC GTT GGG 1413 GGC TGA GTT TGG TGC ACA GCA GCA GTT TTC TGC CAC AGC GCT CTC GGG 1467 CTC CCC CAC CCT GCA GGC CTG GGA ATC TGG CTT CTT AGA CAC AGC AGC ACC AGC AGC CTC CAC AGC AGC CTC CAC AGC AGC CTC CTC AGA CAC AGC CTC CTC AGA CAC CTC CAC AGC GGT CTT AGA CAC AGC AGC CTC CTC AGA CAC AGC AGC CTC CAC AGC GGT CTT AGA CAC AGC AGC CTC AGA CTC TTC AGA CAC AGC AGC CTC CAC AGC AGC CTC CAC AGC AGC CTC AGC AGC CTC CAC AGC AGC AGC CTC CAC AGC AGC CTC CAC AGC AGC CTC AGC AGC CTC CAC AGC AGC AGC AGC AGC CTC CAC AGC AGC AGC CTC CAC AGC AGC CTC CAC AGC AGC CTC CTC CTC CAC AGC AGC CTC CTC CTC CTC CTC CTC CTC CTC CTC C	1197

FIGURE 2D

1674	1728	1782	1836	1890	1944	1998	2052	2106
TAA GCT	CCT GCA	CTG AGC	TGG GGA	AGC GTC	GTT TGC	TCT GCC	TTT CAG	ATA AGC
CCT	222	TTG	ATT	TCC	CCT	GTC	GAC	CTG.
1665	1719	1773	1827	1881	1935	1989	2043	2097
TGG TTG	CTT TAT	CTC CCC	GTT GGG	CTA GCG	TTT GGC	GCC TTT	CAT CCA	CAG CAG GGA CTG
299	၁၁၅	225	TTG	TGC	TGG	GCT	CAG	CAG
1656	1710	1764	1818	1872	1926	1971 1980	2034	2088
TCC AGA GAA GGC	TTA ATA	TCT GGA	GTG CCG	CTG TCC	TGT GGT TGG	TCC CCG AAC CGA GGG ACG	CAT CAG	ATC CCT
TCC	GGA	သသ	ACA	AAG	TGG	CGA	၁၁၁	292
1647	1701	1755	1809	1863	1917	1971	2025	2079
ATA AAC GGA	CTG AGA AAC	TTT GAG	GAA TGT	GAC CCC AAG	CTG TCC TGG	CCG AAC	CAT GCT	CAG AAC
	CTG	CAC	TCT	ACT	TGC	TCC	229	GTC .
1638	1692	1746	1800	1854	1908	1962	2016	2070
TGC CTC	GTG TTC	GGA TGG	AGA CTT	AAG GAC	GGG GTC TGC	CCC CCC	TGC CCC	CAG CCA
CTC	CTC	AGG	TTC	ACC	GGT	 CCC	ACC	GAC
1629	1683	1737	1791	1845	1899	1953	2007	2061
CAA GCT CTT	CCC TGC	CCC TCC TGC	CTT ACT CTC	GAA GGG	TAG GAG	GAC TAC	TCA GAT GCC	GAA GGG CAG
CAA	CTT	200	CTT	CTG	TTC	TGT	TCA	GAA

FIGURE 2E

OPSTACE CLEVE

. 2160	2196 2205 2214	2268	2322	2376	2430
CCC TGG GGG	CCA CCC TTA AAA CCA GCA CCC TGT	CAA AAC TAG	A TAC TGG	A TGT ACA	C ATT TTC
	.5 .4 GC		.3 .A TGA '	7 T CTA	1 A AA(
2151	2205	2259	2313	2367	2421
TTC ACA	AAA CCA	TTC CCA	ACT GAA	TCC CCT	AAT AAA
TGG	TTA	225	229	TTT	AAA
2142.	2196	2250	2304 2313	2358	2412 2421
GGA GTC TGG	CCA CCC	TGG GGT	GCC CCA GCC ACT GAA	GGT ATT	TTA AGT AAA AAT AAA AAC
AGT	AGT	GAC	CAG	TCT	TGC
2133	2178 2187	2241	2295	2349	2403
CTA ATA CCC AGT	GAT GGG ACA CGT AGG AGT	TGT GTG	CAG CCG	CTC CTT	CAA TTT TTG TGC
	ACA	999	AGA	GAA	
2124		2232	2286	2340	2394
GGC CCC		CCG AGT	GGC CCG	TTT TAT	ACG TCT
GAG	TGT	CTG	CTG		GTT
2115 CAT CTC TCG	2169	2223	2277	2331	2385
	GTG TGT CAC	CCC TCG AGG	CCT CCG GCT	CAG CGG CTG	AAT GTA TAT

FIGURE 2F

AGA C 3'

GI 487057 GI 487057 GI 487057 GI 487057 GI 487057 980615 412453 980615 980615 980615 412453 412453 412453 412453 S P T E P P S V E P P T E E H TLDV GLAE T Q A S A A A A T A E L L K K Q E E L N R K A E E L D R R E R E L Q A V V S A - A Q A G L L R Q Q E E L D R K A A E L E R K E R E L I T K E H A L A O A E L L K R O E E L E R K A A E L D R R E R E M PLPSFCPVQPCFEQDISMEIPQEEPLPSWCPVKPCFYQDFSTEIPADYPLPSNFPVGPCFYQDFSVDIPVEE LAWFCVETNNGAGFG LAWFSGNSSKGVDFG LAWFCVDSSRAVDFG GLDE TLD Q Y A G م PPAPAPLPPPSAPSLQPSRKL-ATTVPVTQLPGSS-QPAVLQ-PGGVKMPNVP-NT-QPAIMK 1 FQDPAVIQHRPSRQ FQDPSVTQLTNAPQ EKDPSVTQVTRNVP LAC C ပ TLALLLLNFLA G V T L F L N L V V T L F L N I Z GNPFAEPSELDNP TNPFADP-VDVNP SNPFADP-DLNNP - V A N L H V R O N N W P Y L W M C S T Y L W M L H S LWMFHA (EPPPAYEF)
- TNA - - - -USTMY) CKMLY) Ж Ы м Р ഗ ſΞÌ E S S ı > 区 ഗ ø OFF O P A Y 4 4 H A Q R I N Q E O K T z K K N N O 146 107 路でて 33

FIGURE 3A

201 LSILWVLLFTPCSFVCWYRPMYKAFRSDSSFNFFVFFFIF9	980615
186 LSILWFLIFTPCAFLCWYRPIYKAFRSDNSFSFFVFFVE 4	412453
186 LSILWFLLFTPCSFVCWYRPLYGAFRSDSSERFFVFFVY G	GI 487057
241 FVQ D V L FVLQ A I G I P G W G F S G W I S A L V - V P K G N T A V S V L M 980615 226 E C Q I G I Y I I Q L V G I P G L G D S G W I A A L S T L D N H S L A I S V I M 412453 226 I C O F A V H V L O A A G F H N W G N C G W I S S L T G L N K N - I P V G I M M GI 487057	80615 12453 I 487057
280 LLVALLETGIAVLGIVMLKRIHSLYRRTGASFOKAQQEFA 99	980615
266 MVVAGEFTLCAVLSVFLLQRVHSLYRRTGASFOQAQEEFS 4	412453
265 IIIAALETASAVISLVMFKKVHGLYRTTGASFEKAQOEFA G	GI 487057
AGVESNPAVRTAAANAAA GAAENAFRAP	980615
QGIESSRTFHRAAS SAAQGAFQGN	412453
TGVMSNKTVQTAAANAASTAATSAAONAEKGNQM	GI 487057

FIGURE 3B